

# **TOSTON DAM (Broadwater-Missouri)**

## **Fact Sheet**

### **PROJECT DESCRIPTION**

- ◆ Located on the Missouri River, in Broadwater, 6 miles southeast of Toston.
- ◆ Owned and operated by the DNRC.
- ◆ Project consists of:
  - ◆ Concrete gravity dam, 56 feet high, 705 feet long
  - ◆ Run-of-the-river dam, with rubber inflatable bladder flashboards.
  - ◆ Project includes a 10 mega-watt hydropower power. Northwest Energy purchases power from the plant.
  - ◆ Hydropower revenue, which totals approximately \$900,000 after debt payments and operating expenses, is used for rehabilitation and repairs on other state-owned projects.
- ◆ Original construction completed in 1940 by State Water Conservation Board.
- ◆ Stores 3,000 acre-feet at normal full pool.
- ◆ Provides supplemental irrigation on approximately 23,600 acres through the Broadwater-Missouri Canal.
- ◆ The dam is a “high hazard” structure, which means that its failure could cause loss of life. Farms and ranches, roads, bridges, towns and utilities are located in the flood plain.

### **PROJECT DEFICIENCIES AND REHABILITATION**

A major rehabilitation of the dam occurred in 1989. The dam, spillway and hydropower plant are in good condition and meet or exceed existing dam safety standards. The rehabilitation included:

- ◆ Construction of new rubber bladder flashboards to control pool levels.
- ◆ Installation of a 10-megawatt hydropower plant.
- ◆ Improvements to access and maintenance roads.

Rehabilitation cost (1989): \$26,000,000

Other repairs:

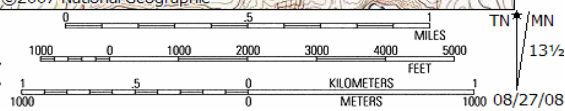
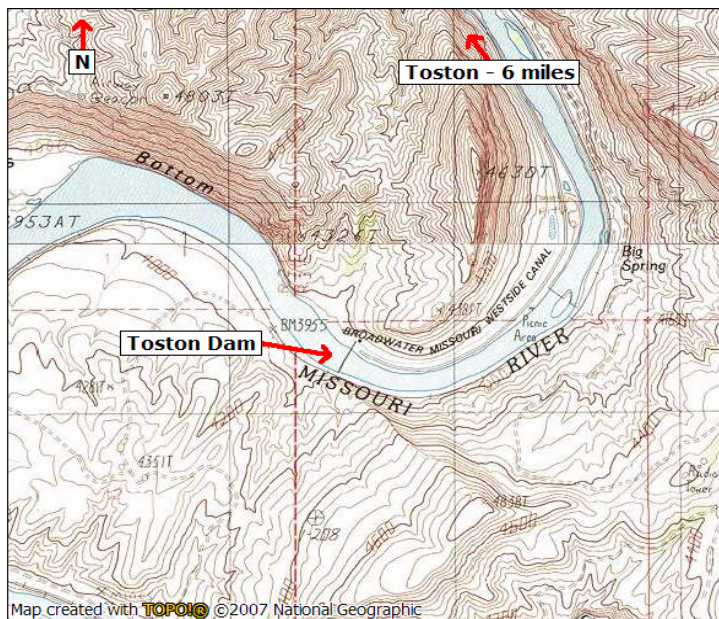
- ◆ The spillway bridge was replaced in 2005 at a cost of \$675,000. The bridge serves as a primary maintenance access and provides public access to the east side of the river.
- ◆ A new automated track rake was installed in 2002. The trash rake cleans debris from the upstream face of the dam and greatly reduces shutdowns of the power plant for intake cleaning and maintenance. Cost: \$450,000



**Toston Dam**



**Trash Rake**



TN MN  
13½  
08/27/08